Started on	Friday, 21 March 2025, 11:34 AM
State	Finished
Completed on	Friday, 21 March 2025, 11:57 AM
Time taken	22 mins 55 secs
Grade	80.00 out of 100.00

```
Question 1
Correct
Mark 20.00 out of 20.00
```

Given an array arr[] of size n, its prefix sum array is another array prefixSum[] of the same size,

 $such that the value of prefixSum[i] is arr[0] + arr[1] + arr[2] \dots arr[i]. Write a Python code to generate the prefixSum[]\\$

Input : arr[] = {10, 20, 10, 5, 15}
Output : prefixSum[] = {10, 30, 40, 45, 60}

For example:

Test	Input	Result
n = int(input())	3	[11, 22, 33]
arr=createList(n)	11	[11, 33, 66]
<pre>prefix=fillPrefixSum(arr)</pre>	22	
print(arr)	33	
print(prefix)		

Answer: (penalty regime: 0 %)

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```
def fillPrefixSum(arr):
    prefixSum = [0 for i in range(len(arr))]
    prefixSum[0] = arr[0]
    for i in range(1, len(arr)):
        prefixSum[i]=prefixSum[i-1]+arr[i]
    return (prefixSum)

def createList(n):
    l=[]
    for i in range(n):
        x=int(input())
        l.append(x)
    return 1
```

	Test	Input	Expected	Got	
*	<pre>n = int(input()) arr=createList(n) prefix=fillPrefixSum(arr) print(arr) print(prefix)</pre>	3 11 22 33	[11, 22, 33] [11, 33, 66]	[11, 22, 33] [11, 33, 66]	~
•	<pre>n = int(input()) arr=createList(n) prefix=fillPrefixSum(arr) print(arr) print(prefix)</pre>	4 5 8 3 2		[5, 8, 3, 2] [5, 13, 16, 18]	~

Passed all tests! 🗸

, 7:49 PM Correct Marks for this submission: 20.00/20.00.	ASSESSMENT EXAM -IX -SEB: Attempt review	

```
Question 2
Correct
Mark 20.00 out of 20.00
```

Write a Python Program to find the product of two matrices. Check the condition to multiply two matrices, if the condition is false, print "Cannot Multiply"

For example:

Input	Result
2 3	Matrix:
1 1 2	1 1 2
2 3 1	2 3 1
3 2	Matrix:
2 4	2 4
1 2	1 2
3 5	3 5
	Matrix:
	9 16
	10 19

Answer: (penalty regime: 0 %)

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```
def read_matrix(r,c):
   matrix = [[0]*c for row in range(r)]
   for i in range(r):
        lines = list(map(int, input().split()))
        for j in range(c):
            matrix[i][j] = lines[j]
    return matrix
def print matrix(M):
   print("Matrix:")
    for i in range(len(M)):
        for j in range(len(M[0])):
            print(M[i][j],end=" ")
       print()
def product(M,N):
   C=[[0]*len(N[0]) for i in range(len(M))]
    for i in range(len(M)):
        for j in range(len(N[0])):
            for k in range(len(N)):
```

	Input	Expected	Got	
~	2 3	Matrix:	Matrix:	~
	1 1 2	1 1 2	1 1 2	
	2 3 1	2 3 1	2 3 1	
	3 2	Matrix:	Matrix:	
	2 4	2 4	2 4	
	1 2	1 2	1 2	
	3 5	3 5	3 5	
		Matrix:	Matrix:	
		9 16	9 16	
		10 19	10 19	

	Input	Expected	Got	
~	3 3	Matrix:	Matrix:	~
	1 1 1	1 1 1	1 1 1	
	111	1 1 1	1 1 1	
	1 1 1	1 1 1	1 1 1	
	3 3	Matrix:	Matrix:	
	2 2 2	2 2 2	2 2 2	
	2 2 2	2 2 2	2 2 2	
	2 2 2	2 2 2	2 2 2	
		Matrix:	Matrix:	
		6 6 6	6 6 6	
		6 6 6	6 6 6	
		6 6 6	6 6 6	
~	2 3	Cannot Multiply	Cannot Multiply	~
	1 2 3			
	1 2 3			
	1 4			
	1 2 3 4			

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.

Question 3
Incorrect
Mark 0.00 out of 20.00

Write a Python program to evaluate the series below using recursion

$$x - \frac{x^3}{3!} + \frac{x^5}{5!} - \cdots$$
 n terms

For example:

Input	Result
3	0.14087459415584405
5	

Answer: (penalty regime: 0 %)

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```
r=int(input())
c=int(input())

m=[]
for i in range(r):
```

Syntax Error(s)

Sorry: IndentationError: expected an indented block (__tester__.python3, line 12)

Incorrect

Marks for this submission: 0.00/20.00.

```
Question 4
Correct
Mark 20.00 out of 20.00
```

Write a Python Program to extract only the strong numbers from a list using filter

```
Example :145 is a strong number

Sum of digit factorials = 1! + 4! + 5!

= 1 + 24 + 120

= 145
```

For example:

Input	Result	
5	[2, 145, 40585]	
2		
67		
145		
40585		
60		

Answer: (penalty regime: 0 %)

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```
def factorial(n):
    p=1
    for i in range(1,n+1):
        p=p*i
    return p

def IsStrong(x):
    temp=x
    sum=0
    while (x>0):
        r=x*10
        sum = sum+factorial(r)
        x=x//10
    if sum==temp:
        return True
    else:
```

	Input	Expected	Got	
~	5	[2, 145, 40585]	[2, 145, 40585]	~
	2			
	67			
	145			
	40585			
	60			

Passed all tests! 🗸

CorrectMarks for this submission: 20.00/20.00.

```
Question 5
Correct
Mark 20.00 out of 20.00
```

Write a Python program to find the cube of all elements in a list using <u>list comprehension</u>

For example:

Input	Result
3	[11.5, 22.0, 33.23]
11.5	[1520.875, 10648.0, 36693.65926699999]
22	
33.23	

Answer: (penalty regime: 0 %)

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```
n=int(input())
l=[]
for i in range(n):
    x=float(input())
    l.append(x)
sq_l=[item**3 for item in 1]
print(1)
print(sq_l)
```

	Input	Expected	Got	
~	3 11.5 22 33.23	[11.5, 22.0, 33.23] [1520.875, 10648.0, 36693.65926699999]	[11.5, 22.0, 33.23] [1520.875, 10648.0, 36693.65926699999]	~
•	5 2 3.5 6 9 45	[2.0, 3.5, 6.0, 9.0, 45.0] [8.0, 42.875, 216.0, 729.0, 91125.0]	[2.0, 3.5, 6.0, 9.0, 45.0] [8.0, 42.875, 216.0, 729.0, 91125.0]	~

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.